

- Abdel-Salam HA, El-Khamissy T, Enan GA, Hollenberg CP: Expression of mouse anticeatine kinase (MAK33) monoclonal antibody in the yeast *Hansenula polymorpha* 157
- Alexander EH, Hudson MC: Factors influencing the internalization of *Staphylococcus aureus* and impacts on the course of infections in humans 361
- Bartholomew K, Dos Santos D, Dumonceaux T, Charles T, Archibald F: Genetic transformation of *Trametes versicolor* to phleomycin resistance with the dominant selectable marker *shble* 201
- Bastos AER, Cassidy MB, Trevors JT, Lee H, Rossi A: Introduction of green fluorescent protein gene into phenol-degrading *Alcaligenes faecalis* cells and their monitoring in phenol-contaminated soil 255
- Beg QK, Kapoor M, Mahajan L, Hoondal GS: Microbial xylanases and their industrial applications: a review 326
- Beney L, Marechal PA, Gervais P: Coupling effects of osmotic pressure and temperature on the viability of *Saccharomyces cerevisiae* (Short contribution) 513
- Brandt K, Thewes S, Overhage J, Priefert H, Steinbüchel A: Characterization of the eugenol hydroxylase genes (*ehyA/ehyB*) from the new eugenol degrading *Pseudomonas* sp. strain OPS1 724
- Cha C-J: Biological production of optically active muconolactones by *Rhodococcus rhodochrous* 453
- Charvalos E, Karoutis A: Antimicrobial activity of argon fluoride (ArF) excimer laser on gram-negative bacteria 243
- Costa E, Teixidó N, Usall J, Atarés E, Viñas I: Production of the biocontrol agent *Pantoea agglomerans* strain CPA-2 using commercial products and by-products 367
- Croisetière L, Rouillon R, Carpentier R: A simple mediatorless amperometric method using the cyanobacterium *Synechococcus leopoliensis* for the detection of phytotoxic pollutants 261
- Daoudi L, Turcotte C, Lacroix C, Fliss I: Production and characterization of anti-nisin Z monoclonal antibodies: suitability for distinguishing active for inactive forms through a competitive enzyme immunoassay 114
- Deng X, Wilson DB: Bioaccumulation of mercury from wastewater by genetically engineered *Escherichia coli* 276
- Dequin S: The potential of genetic engineering for improving brewing, wine-making and baking yeasts 577
- Dewettinck T, Van Hege K, Verstraete W: Development of a rapid pH-based biosensor to monitor and control the hygienic quality of reclaimed domestic wastewater 809
- Dias JCT, Rezende RP, Linardi VR: Bioconversion of nitriles by *Candida guilliermondii* CCT 7207 cells immobilized in barium alginate 757
- Dollhopf SL, Hashsham SA, Dazzo FB, Hickey RF, Criddle CS, Tiedje JM: The impact of fermentative organisms on carbon flow in methanogenic systems under constant low-substrate conditions 531
- Ehlers R-U: Mass production of entomopathogenic nematodes for plant protection 623
- El-Katatny MH, Gudelj M, Robra K-H, Elnaghy MA, Gübitz GM: Characterization of a chitinase and an endo- β -1,3-glucanase from *Trichoderma harzianum* Rifai T24 involved in control of the phytopathogen *Sclerotium rolfsii* 137
- Engel P, Scharfenstein LL, Dyer JM, Cary JW: Disruption of a gene encoding a putative γ -butyrolactone-binding protein in *Streptomyces tendae* affects nikkomycin production 414
- Fayolle F, Vandecasteele J-P, Monot F: Microbial degradation and fate in the environment of methyl *tert*-butyl ether and related fuel oxygenates 339
- Fong NJC, Burgess ML, Barrow KD, Glenn DR: Carotenoid accumulation in the psychrotrophic bacterium *Arthrobacter agilis* in response to thermal and salt stress 750
- Fourage L, Colas B: Synthesis of β -D-glucosyl- and β -D-fucosyl-glucoses using β -glycosidase from *Thermus thermophilus* 406
- Frey S, Magan N: Production of the fungal biocontrol agent *Ulocladium atrum* by submerged fermentation: accumulation of endogenous reserves and shelf-life studies 372
- Galhaup C, Haltrich D: Enhanced formation of laccase activity by the white-rot fungus *Trametes pubescens* in the presence of copper 225
- Ganeva V, Galutzov B, Eynard N, Teissié J: Electroinduced extraction of β -galactosidase from *Kluyveromyces lactis* (Short contribution) 411
- Gao Q, Fang A, Pierson DL, Mishra SK, Demain AL: Shear stress enhances microcin B17 production in a rotating wall bioreactor, but ethanol stress does not 384
- Gardin H, Lebeault JM, Pauss A: Degradation of 2,4,6-trichlorophenol (2,4,6-TCP) by co-immobilization of anaerobic and aerobic microbial communities in an upflow reactor under air-limited conditions 524
- Gardin H, Pauss A: κ -carrageenan/gelatin gel beads for the co-immobilization of aerobic and anaerobic microbial communities degrading 2,4,6-trichlorophenol under air-limited conditions 517
- Geerlings A, Redondo FJ, Contin A, Memelink J, Heijden R van der, Verpoorte R: Biotransformation of tryptamine and secologanin into plant terpenoid indole alkaloids by transgenic yeast 420
- Gokarn RR, Evans JD, Walker JR, Martin SA, Eiteman MA, Altman E: The physiological effects and metabolic alterations caused by the expression of *Rhizobium etli* pyruvate carboxylase in *Escherichia coli* 188
- Goswami V, Srivastava AK: Propionic acid production in an in situ cell retention bioreactor 676
- Gotoh T, Miyazaki Y, Kikuchi K-I, Bentley WE: Investigation of sequential behavior of carboxyl protease and cysteine protease activities in virus-infected Sf-9 insect cell culture by inhibition assay 742
- Guerrero SA, Hecht H-J, Hofmann B, Biebl H, Singh M: Production of selenomethionine-labelled proteins using simplified culture conditions and generally applicable host/vector systems 718
- Guieysse B, Cime M, Mattiasson B: Microbial degradation of phenanthrene and pyrene in a two-liquid phase-partitioning bioreactor 796
- Guieysse B, Wikström P, Forsman M, Mattiasson B: Biomonitoring of continuous microbial community adaptation towards more efficient phenol-degradation in a fed-batch bioreactor 780

- Habe H, Ide K, Yotsumoto M, Tsuji H, Hirano H, Widada J, Yoshida T, Nojiri H, Omori T: Preliminary examinations for applying a carbazole-degrader, *Pseudomonas* sp. strain CA10, to dioxin-contaminated soil remediation 788
- Haderlein A, Legros R, Ramsay B: Enhancing pyrene mineralization in contaminated soil by the addition of humic acids or composted contaminated soil 555
- Hamanaka T, Higashiyama K, Fujikawa S, Park EY: Mycelial pellet intrastucture and visualization of mycelia and intracellular lipid in a culture of *Mortierella alpina* 233
- Hancock RD, Viola R: The use of micro-organisms for L-ascorbic acid production: current status and future perspectives 567
- Hans MA, Heinzel E, Wittmann C: Quantification of intracellular amino acids in batch cultures of *Saccharomyces cerevisiae* (Short contribution) 776
- Hara A, Ueda M, Matsui T, Arie M, Saeki H, Matsuda H, Furuhashi K, Kanai T, Tanaka A: Repression of fatty-acyl-CoA oxidase-encoding gene expression is not necessarily a determinant of high-level production of dicarboxylic acids in industrial dicarboxylic-acid-producing *Candida tropicalis* 478
- Hauck R, Adrian L, Wendler P, Amidjojo M, Hegemann W, Görsch H: Transformation of 2,2'-dichlorodisopropyl ether in mixed and pure culture 491
- Heintel T, Zagor T, Schmitt MJ: Expression, processing and high level secretion of a virus toxin in fission yeast 165
- Helianti I, Morita Y, Yamamura A, Murakami Y, Yokoyama K, Tamiya E: Characterization of native glutamate dehydrogenase from an aerobic hyperthermophilic archaeon *Aeropyrum pernix* K1 388
- Henriksen CM, Nilsson D: Redirection of pyruvate catabolism in *Lactococcus lactis* by selection of mutants with additional growth requirements 767
- Herranz C, Martínez JM, Rodríguez JM, Hernández PE, Cintas LM: Optimization of enterocin P production by batch fermentation of *Enterococcus faecium* P13 at constant pH 378
- Holtmann D, Sell D: Investigations into the application of a process for the determination of microbial activity in biofilms (Short contribution) 826
- Hong H-B, Chang Y-S, Choi S-D, Nam I-H, Lee Y-E: Isolation and characterization of a cell-associated protein of *Bacillus pumilus* PH-01 402
- Hujanen M, Linko S, Linko Y-Y, Leisola M: Optimisation of media and cultivation conditions for L-(+)(S)-lactic acid production by *Lactobacillus casei* NRRL B-441 126
- Iohara K, Iiyama R, Nakamura K, Silver S, Sakai M, Takeshita M, Furukawa K: The *mer* operon of a mercury-resistant *Pseudoalteromonas haloplanktis* strain isolated from Minamata Bay, Japan 736
- Irie T, Honda Y, Hirano T, Sato T, Enei H, Watanabe T, Kuwahara M: Stable transformation of *Pleurotus ostreatus* to hygromycin B resistance using *Lentinus edodes* GPD expression signals 707
- Jaworska MM, Konieczna E: The influence of supplemental components in nutrient medium on chitosan formation by the fungus *Absidia orchidis* 220
- Jonsbu E, Christensen B, Nielsen J: Changes of in vivo fluxes through central metabolic pathways during the production of nystatin by *Streptomyces noursei* in batch culture 93
- Kamada N, Yasuhara A, Takano Y, Nakano T, Ikeda M: Effect of transketolase modifications on carbon flow to the purine-nucleotide pathway in *Corynebacterium ammoniagenes* 710
- Kiatpapan P, Murooka Y: Construction of an expression vector for propionibacteria and its use in production of 5-aminolevulinic acid by *Propionibacterium freudenreichii* 144
- Kim CY, Im HW, Kim HK, Huh H: Accumulation of 2,5-dimethoxy-1,4-benzoquinone in suspension cultures of *Panax ginseng* by a fungal elicitor preparation and a yeast elicitor preparation 239
- Kothe E: Mating-type genes for basidiomycete strain improvement in mushroom farming 602
- Laroche C, Beney L, Marechal PA, Gervais P: The effect of osmotic pressure on the membrane fluidity of *Saccharomyces cerevisiae* at different physiological temperatures 249
- Lee J-S, Wittchen K-D, Stahl C, Strey J, Meinhardt F: Cloning, expression, and carbon catabolite repression of the *bamM* gene encoding β -amylase of *Bacillus megaterium* DSM319 205
- Lee S-K, Lee SB: Isolation and characterization of a thermotolerant bacterium *Ralstonia* sp. strain PHS1 that degrades benzene, toluene, ethylbenzene, and *o*-xylene 270
- Lee T, Yun S-H, Hodge KT, Humber RA, Krasnoff SB, Turgeon GB, Yoder OC, Gibson DM: Polyketide synthase genes in insect- and nematode-associated fungi 181
- Leitão AL, Enguita FJ, Martin JF, Santos Oliveira JF: Effect of exogenous lysine on the expression of early cephamycin C biosynthetic genes and antibiotic production in *Nocardia lactamdurans* MA4213 670
- Lipski A, Friedrich U, Altendorf K: Application of rRNA-targeted oligonucleotide probes in biotechnology 40
- Liu Y, Frazer IH, Liu WJ, Liu XS, McMillan N, Zhao K-N: Efficiency of delivery of DNA to cells by bovine papillomavirus type-1 L1/L2 pseudovirions 150
- Mai P, Stig Jacobsen O, Aamand J: Mineralization and co-metabolic degradation of phenoxyalkanoic acid herbicides by a pure bacterial culture isolated from an aquifer 486
- Maicas S: The use of alternative technologies to develop malolactic fermentation in wine 35
- Margolin R, Schinner F: Biodegradation and bioremediation of hydrocarbons in extreme environments 650
- Mars AE, Gorissen JPL, Beld I van den, Eggink G: Bioconversion of limonene to increased concentrations of perillaldehyde by *Pseudomonas putida* GS1 in a fed-batch reactor 101
- Martínez A, Soberón-Chávez G: Characterization of the *lipA* gene encoding the major lipase from *Pseudomonas aeruginosa* strain IGB83 731
- Matsui T, Hirasawa K, Konishi J, Tanaka Y, Maruhashi K, Kurane R: Microbial desulfurization of alkylated dibenzothiophene and alkylated benzothiophene by recombinant *Rhodococcus* sp. strain T09 196
- McMullan G, Meehan C, Conneely A, Kirby N, Robinson T, Nigam P, Banat IM, Marchant R, Smyth WF: Microbial decolourisation and degradation of textile dyes 81
- Meulenbeld GH, Hartmans S: Thioglucosidase activity from *Sphingobacterium* sp. strain OTG1 700
- Müller K: Pharmaceutically relevant metabolites from lichens 9
- Nichols NN, Dien BS, Bothast RJ: Use of catabolite repression mutants for fermentation of sugar mixtures to ethanol 120
- Nuyens F, Zyl WH van, Iserentant D, Verachtert H, Michiels C: Heterologous expression of the *Bacillus pumilus* endo- β -xylanase (*xynA*) gene in the yeast *Saccharomyces cerevisiae* 431
- O'Brien M, Hamer G: The effect of lithium chloride on the biooxidation of aqueous methanol/acetone mixtures (Short contribution) 508
- Park M-O, Tanabe M, Hirata K, Miyamoto K: Isolation and characterization of a bacterium that produces hydrocarbons extracellularly which are equivalent to light oil 448
- Parshikov LA, Heinze TM, Moody JD, Freeman JP, Williams AJ, Sutherland JB: The fungus *Pestalotiopsis guepinii* as a model for biotransformation of ciprofloxacin and norfloxacin 474
- Pöggeler S: Mating-type genes for classical strain improvements of ascomycetes 589
- Priefert H, Rabenhorst J, Steinbüchel A: Biotechnological production of vanillin 296
- Ravelet C, Grosset C, Krivobok S, Montuelle B, Alary J: Pyrene degradation by two fungi in a freshwater sediment and evaluation of fungal biomass by ergosterol content 803
- Rieseberg M, Kasper C, Reardon KF, Schepers T: Flow cytometry in biotechnology 350
- Rittstieg K, Robra K-H, Somitsch W: Aerobic treatment of a concentrated urea wastewater with simultaneous stripping of ammonia (Short contribution) 820
- Rusnak K, Troyanovich J, Mierzwa R, Chu M, Patel M, Weinstein M: An antibiotic with activity against gram-positive bacteria from the gentamicin-producing strain of *Micromonospora purpurea* (Short contribution) 502

- Ryoo D, Shim H, Arengi FLG, Barbieri P, Wood TK: Tetrachloroethylene, trichloroethylene, and chlorinated phenols induce toluene-*o*-xylene monooxygenase activity in *Pseudomonas stutzeri* OX1 545
- Sabra W, Zeng A-P, Deckwer W-D: Bacterial alginate: physiology, product quality and process aspects 315
- Saha BC: Xylanase from a newly isolated *Fusarium verticillioides* capable of utilizing corn fiber xylan 762
- Sakhivel N, Mortensen CN, Mathur SB: Detection of *Xanthomonas oryzae* pv. *oryzae* in artificially inoculated and naturally infected rice seeds and plants by molecular techniques 435
- Sashihara T, Dan M, Kimura H, Matsusaki H, Sonomoto K, Ishizaki A: The effect of osmotic stress on the production of nukacin ISK-1 from *Staphylococcus warneri* ISK-1 496
- Sassoon J, Mooibroek H: A system of categorizing enzyme-cell wall associations in *Agaricus bisporus*, using operational criteria 613
- Scholtmeijer K, Wessels JGH, Wösten HAB: Fungal hydrophobins in medical and technical applications 1
- Schwarz WH: The cellulosome and cellulose degradation by anaerobic bacteria 634
- Shim H, Ryoo D, Barbieri P, Wood TK: Aerobic degradation of mixtures of tetrachloroethylene, trichloroethylene, dichloroethylenes, and vinyl chloride by toluene-*o*-xylene monooxygenase of *Pseudomonas stutzeri* OX1 265
- Sielaff B, Andreesen JR, Schröder T: A cytochrome P450 and a ferredoxin isolated from *Mycobacterium* sp. strain HE5 after growth on morpholine 458
- Sinha J, Bae JT, Park JP, Kim KH, Song CH, Yun JW: Changes in morphology of *Paecilomyces japonica* and their effect on broth rheology during production of exo-biopolymers 88
- Solaiman DKY, Ashby RD, Foglia TA: Production of polyhydroxyalkanoates from intact triacylglycerols by genetically engineered *Pseudomonas* 664
- Song J, Kinney KA: Effect of directional switching frequency on toluene degradation in a vapor-phase bioreactor 108
- Stolz A: Basic and applied aspects in the microbial degradation of azo dyes 69
- Takeno K, Nakashimada Y, Kakizono T, Nishio N: Methane fermentation of coastal mud sediment by a two-stage upflow anaerobic sludge blanket (UASB) reactor system 280
- Thamthiankul S, Suan-Ngay S, Tantimavanich S, Panbangred W: Chitinase from *Bacillus thuringiensis* subsp. *pakistani* 395
- Trosok SP, Driscoll BT, Luong JHT: Mediated microbial biosensor using a novel yeast strain for wastewater BOD measurement 550
- Uotsu-Tomita R, Tonoizuka T, Sakai H, Sakano Y: Novel glucoamylase-type enzymes from *Thermoactinomyces vulgaris* and *Methanococcus jannaschii* whose genes are found in the flanking region of the α -amylase genes 465
- Vrije T de, Antoine N, Buitelaar RM, Bruckner S, Dissevelt M, Durand A, Gerlagh M, Jones EE, Lüth P, Oostra J, Ravensberg WJ, Renaud R, Rinzema A, Weber FJ, Whipps JM: The fungal biocontrol agent *Coniothyrium minitans*: production by solid-state fermentation, application and marketing 58
- Wang CL, Lum AM, Ozuna SC, Clark DS, Keasling JD: Aerobic sulfide production and cadmium precipitation by *Escherichia coli* expressing the *Treponema denticola* cysteine desulfhydrase gene 425
- Washida M, Takahashi S, Ueda M, Tanaka A: Spacer-mediated display of active lipase on the yeast cell surface 681
- Wattiau P, Renard M-E, Ledent P, Debois V, Blackman G, Agathos SN: A PCR test to identify *Bacillus subtilis* and closely related species and its application to the monitoring of wastewater biotreatment (Short contribution) 816
- Wick M, Lebeault J-M: Pressure measurement to evaluate ethanol or lactic acid production during glucose fermentation by yeast or heterofermentative bacteria in pure and mixed culture 687
- Willke T, Vorlop K-D: Biotechnological production of itaconic acid 289
- Willumsen PA, Nielsen JK, Karlson U: Degradation of phenanthrene-analogue azaarenes by *Mycobacterium gilvum* strain LB307T under aerobic conditions 539
- Wood TA, Murray KR, Burgess JG: Ferrous sulphate oxidation using *Thiobacillus ferrooxidans* cells immobilised on sand for the purpose of treating acid mine-drainage (Short contribution) 560
- Wu X-L, Chin K-J, Stubner S, Conrad R: Functional patterns and temperature response of cellulose-fermenting microbial cultures containing different methanogenic communities 212
- Xu J, Verstraete W: Evaluation of nitric oxide production by lactobacilli (Short contribution) 504
- Xu XY, Kadokura H, Okubo A, Kitamoto K, Yamazaki S: Cloning and sequencing of a gene encoding a novel salt stress-induced membrane protein from *Rhodobacter sphaeroides* f. sp. *denitrificans* 442
- Yoon H-G, Kim H-Y, Lim Y-H, Kim H-K, Shin D-H, Hong B-S, Cho H-Y: Identification of essential amino acid residues for catalytic activity and thermostability of novel chitosanase by site-directed mutagenesis 173
- Zaldivar J, Nielsen J, Olsson L: Fuel ethanol production from lignocellulose: a challenge for metabolic engineering and process integration 17
- Zhang S, Kamachi M, Takagi Y, Lenz RW, Goodwin S: Comparative study of the relationship between monomer structure and reactivity for two polyhydroxyalkanoate synthases 131
- Zhang W, Berry A, Franco CMM: An improved procedure for characterization of spatial and temporal evolution of immobilized cells in gel membranes 693